

JOURNAL OF SOILS AND SEDIMENTS

Protection, Risk Assessment and Remediation



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Aims and Scope

Soil: Within the scope of JSS, soil is the upper layer of the earth's crust with its liquid (soil solution) and gaseous components (soil air). Included are soil substrates, e.g., treated soils, ashes, slags, sewage sludge, composts and urban soils. Soils as the interface of lithosphere, hydrosphere, atmosphere, and biosphere present one of the most challenging topics for environmental research. The role of healthy soils to sustain life and generate food for humans and other biota alike is but one of their invaluable functions. We only start to understand soils as natural biochemical reactors, and JSS will contribute to a better comprehension of soil systems.

Sediments: Within the scope of JSS, sediments encompass freshwater (limnic), estuarine, coastal, and harbour sediments, and related dredged material. Sediments can serve as a historical record of change due to both natural environmental causes and man-made pollution. In modern research on contaminated sediments, the identification of contaminants and their distribution, the evaluation of solid/solution relations, the study of transfer mechanisms to organisms, and the selection and development of remedial measures, in particular, of dredged materials, are important.

Topics

1. Research on Effects caused by disturbances and contamination
2. Research, strategies and technologies for prediction, prevention, and protection
3. Research, strategies and technologies for identification and characterisation
4. Research, strategies and technologies for treatment, remediation and reuse
5. Strategies for risk assessment and management
6. Research on and the implementation of quality standards
7. International regulation and legislation

Keywords:

General for soils and sediments:

- Anthropogenic impacts
- Bioavailability
- Ecology
- Ecotoxicological effects
- Metals
- Natural attenuation
- Organic compounds
- Risk assessment
- Risk management
- Species sensitivity

Soils:

- Acidification
- Remediation: including bioremediation and phytoremediation
- Soil functioning
- Soil structure

Sediments:

- Sediment/water interactions (e.g. release of historic pollutants from contaminated sediments, thus posing a risk to water resources; see also the EU Water Framework Directive)
- Remediation of contaminated sediments
- Management of sediments and dredged material (www.mep.tno.nl/SedNet)

Types of contributions

- Editorials/guest editorials
- Letters to the editors
- Research articles (experimental and theoretical)
- Short original communications
- Review articles
- Discussions and commentaries/pro and contra
- Methods and concepts
- Management strategies
- Reports from research and technology
- Reports from policy and legislation
- Book reviews and announcements
- Software
- Conference reports and announcements

Target groups

- Environmental scientists
- Chemists, biologists
- Hydrologists, limnologists
- Geographers, geologists, mineralogists
- Environmental managers
- Agriculturists, foresters
- Landscape designers
- Technologists
- Waste and remediation specialists
- Jurists

Target areas

- Academia and industry
- Research and technology
- Consultancy
- Administrative bodies
- Non-government organisations
- Legislation and regulation

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